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## IMPROVED IMAGE PROCESSING ARCHITECTURE

### ABSTRACT

An improved image processing architecture is provided having advantages of increased speed, lower cost, extensive features and efficiency of implementation. A geometric processor is provided for rotation, translation, expansion, compression, warping, 3D-perspective, vectors, windows, and other features. A spatial processor is provided for smoothing, anti-aliasing, filtering, pattern recognition, and other features. Other processors; together with memories, input devices, output devices, interfaces, and other elements; combine with the geometric processor and spatial processor to provide improved image processing capability. An experimental system that demonstrates many of the improved features has been constructed and is disclosed in detail.